1962

LAYAN EMBIID LOCALITIES

FRASIER'S HILL 4200'

APOSTHONIA ALTIMALAYA N.SP. (B.M.N.H.)

GUNONG TAHAN, PAHANG 5000' 1♂ DEC.

APOSTHONIA PENDLEBURYI N.SP. (LEIDEN)

GUNONG JERA (=KEDAH PK.) 3,290'

N. SP. GEN ?, SMALL, BANDED ♀ (B.M.N.H.)

PULO, PENANG

APOSTHONIA N.SP (LEIDEN)

THAILAND

DOI SUTEP IV-4-52 THURMAN 1♀ BOLOVENSIS GROUP

mtns. nr Chiang Mai

BURMA

CARIN CHEBA 900-1100 M IV-83

APOSTHONIA THORACICA (DAVIS) T.L.

2♂ GENOA MUS.

MALAYAN CULTURES

CULTURE 380 Singapore, Bukit Timah Nature Reserve

Virgin, natural hill forest with large buttressed trees. Two species of small apposthonia in obscure tunnels under dry bark flakes. Most of ♂ are penultimate. 1 adult ♂ collected.

Apposthonia sp. DIED OUT Stet sent to S.F.

C-381 Kuala Lumpur — Shade trees on grounds of Inst. for Medical Research

Apposthonia borneensis discontinued x-1-63

C-382 MALAYA: 5 MI. S.W. BENTONG VI-16-62

Bark of rubber trees in shady plantation near original forest. Appears to be borneensis

APOSTHONIA N. SP.

C-383 FRASER'S HILL 4200' VI-17-62

High mountain forest pale embiid — probably altimalaya in bark flakes of pine trees (planted) above golf course — tunnels barely visible at edges of layers of bark. Also on tree deep in forest. 1 ♂ collected. Some penult ♂ and juv.

C-384 FRASER'S HILL 4200' VI-18-62

Slender trees deep in virgin forest (at latter place) 6"-4" diam bark dry and

C-385 A+B. MALAYA: GUNONG BRINCHANG (ABOVE CAMERON HIGHLANDS) 6500' EL. VI-19-62 (BATU)

Black Apposthonia common in hanging, sheltered moss in cloud forest. 3 ♂♂ collected many adult ♀ and young ♀ all stages.

Cultures died in hot lowlands

C-386 MALAYA: JOR CAMP 600M VI-19-62 (road between TAPAH + C. HIGHLANDS)

Exposed bare, granite rock on side of road Large, naked embiid tunnels ramifying from shallow sheltered cracks. all half grown ♂♂ with white-tipped antennae. Prob. Apposthonia pendleburyi n. sp. Many large Embiophila bugs.

EOSEMBIA

C-387 MALAYA: IPOH 70 M VI-22-62

Bark of trees in Allen garden. Seems to be 2 species: one is apparently borneensis; the other is too small to be saundersii. Colonies of this on underside of small limbs of shrub-like tree. Silk white with scattered frass specks.

A. BORNEENSIS discont. x-1-63

C-388 MALAYA: 4 MI. N.E. JOR CAMP, 800M, VI-20-62

A+B Mountain rain forest. Small creek canyon Many colonies of large Apposthonia on smooth barked trees. Silk clean, white, devoid of frass. Embiids half grown. Sigh ♀ groups. Tunnels go high in trees.

EOSEMBIA

C-389 MALAYA: 3 MI. S.E. IPOH 50M, VI-21-62
Ptilocerembia on bark surface of rubber trees in groves. Tunnel surface densely powdered or speckled with bark fragments. Single ♀ colonies. All stages including some adults. Center of colony seems to have a food supply for young in form of powdered bark material coated with silk. Picture taken of similar thing in C-388 colony.
PTILOCEREMBIA

C-390 + 391 Above place. Aposthonia n. sp or spp.

C-390 on rotted bark in crevices and beneath flakes in deep shade no ♂ APOSTHONIA

C-391 On rough reddish bark tunnels heavily coated with fine reddish bark dust. no ♂ borneensis? discontinued X-1-63

C-392 MALAYA: LONE PINE HOTEL, PENANG (SEA COAST)
VI-26-62 Small tunnels in crevices of coconut palms behind beach. 1 ♂ appears to be A. ceylonica.
Ceylonica

C-393 MALAYA: PENANG (E.&O. HOTEL) VI-27-62
borneensis? common on shade trees in parking lot of hotel. Fuzz-covered tunnels
A. borneensis

C-394 MALAYA: KEDAH PEAK (BUNGALOW) 3300'
VI-28-62
On lichens on shrubs (trunks) in garden of bungalow. Tunnels large but inconspicuous due to fuzzy cover. Webs white. Many adult & penult. Eggs laid singly in groups mixed with feces and along tunnels. Colonies very inconspicuous. New sp. large (Aposthonia n. sp.) None found in surrounding forest. Best colonies on hybiscus trunks. discontinued X-1-63

C-395 MALAYA: KEDAH PEAK (NEAR CREST) 3850' EL. VI-29-62 Mossy forest
Colonies in hanging moss clumps also under bark debris of native conifer. Tunnels in latter case more often exposed, fuzz-covered 1 ♂ collected, many females & young
Aposthonia n. sp.

C-396 THAILAND: ABOUT 10 MI. W. PATALUNG
150M VII-1-62 Aposthonia n. sp.?
Tropical forest. Ptilocerembia colonies underside of recently-felled log Adult ♀ + young
Malaya-type forest Saw elephant
Uninhabited region.

C-397 A+B THAILAND: KRACHONG FOREST, NR. TRUNG
100M VII-2-62 PTILOCEREMBIA
Common around store but rare in deep forest: on scarred bark of live trees.
Adult ♀s and 1st instar young
Clearing in virgin tropical forest. Wet

C-398 THAILAND: KRACHONG FOREST, NR. TRUNG
100M VII-2-62 Aposthonia n. sp.
Scattered 1-individual-nests on small tree several penult ♂♂. In clearing in tropical rain forest. Wet

C-399 THAILAND: 40 MI. S.E. PRACHUAB 75M VII-5-62
High monsoon forest (dry) large Apostlonia turned with eggs + early young ♀ stumps, under dry ~~bamp~~ dead trees (Off gr ♂), and bark of standing trees. Silk sled
Left this camp because of approaching rains
Eosembia

C-400 THAILAND: BANGKOK VII-10-62
Red and black ♀ + several young in scarred twigs + dead bark of small, shrub-like tree in Edgar Smith's garden

C-401 A+B THAILAND: 10 MI. N. SARABURI 100M
VII-12-62 Botanic garden based on patch of native, mixed forest, thinned + labelled Large embiid colonies on scarred bark. Orange + black Apostlonia ♀s and young. Naked silk. Large egg masses on surface.
EOSEMBIA

C-402 THAILAND: 10 MI. N. SARABURI 100M
VII-12-62 Some place Borneensis on underside and crevices of limbs of shrub-like tree in swampy area near offices of forest dept. Webs thick, heavily coated with frass A. BORNEENSIS

C-403 THAILAND: YAN HEE DAM 275M
VII-13-62 Sal type forest area in cyn. Large orange and black apostlonia in matted leaves and debris under stones piled by gardener in residential area of construction workers 1 adult ♂ 2 ♀

C-404 A+B THAILAND: YAN HEE DAM 275M
VII-13-62 Up cyn near dam. Natural, stony forest slope frequently burned over Sparse sal forest. H. sp. Embonychidae in splintered butts of trees, scars, bark flakes, etc. Web gray-white rarely extend out for in view. Several ♀ in one nest at times. Adult ♀, eggs + young cultured. no ♂. ADELEMBIA N. SP.

C-405 THAILAND: MAE CHIANG HAI
200M VII-13-62 Sal forest with cycads on flat Oligotoma under bark and stones 2-3 ♀ in this culture

Long webs seen but ~~not~~ no embiids collected from these. Short stop.

C-406 A, B, C. THAILAND: 7 MI. S. CHIENGMAI
300M VII-14-62
Residential forested area among houses large trees, damp, shades Large Apostlonia common on bark with retreats in crevices. Prefers scarred smooth bark trees Mat ♀s, eggs (large masses) and 1-2nd instar young.

C-407 THAILAND: 7 MI. S. CHIENGMAI
300M VII-14-62 Adelembia
Blank + white ~~Apostlonia~~ webs entirely covered with reddish bark dust. Silk lavender elastic. Eggs scattered in loose clumps. About 12" long + group seen. Adult ♀, eggs, and early young

C-408 THAILAND: 7 MI. S. CHIENGMAI ~~800~~ 300M
VII-14-62 Mixed sp. Some appear to be borneensis others small black sps. in bark flakes.

C-409 THAILAND: CHIENGMAI, 300M
VII-14-62 Small black sp and ♀ about size of saundersii in bark flakes of "catsey" trees in Gordon Youngs garden. Web of small species entirely covered with reddish bark particles. Web of other sp. devoid of cover
discontinued ceylonica

C-410 THAILAND: E. SIDE DOI SUTEP, 560 M.
VII-15-62 Open low forest of "sal" oak etc with grass understory. Subject to drought and burning. N. sp. Apostkonia generally on saplings. Colony a vertical large simple tunnel of naked silk containing 1 ♀ and eggs. Eggs in low circular mound in powdery matrix covered with silk; operculu not visible.
Adelumbia n. sp. B+W ♀s segregated IV-15-63
C-410B Several ♀s and egg masses

C-410 N. gen or Apostkonia n. sp.
HP very long
Several females, long with adult ♂s, segregated IV-15-63. No eggs laid by II-1-64 but females apparently healthy.
Never laid eggs, culture killed

C-410 Type culture of Lobelumbia mandibulata R.

C-411 Same place as C-410
Colonies of "Embonycha" in node butts. dead bark of limbs, base of orchids etc. Silk not dense, slightly lavender, lightly sprinkled with frass.

C-412 Same place as C-410
Orange & black Apostkonia on bare bark with retreats in crevices. Silk naked.

C-413 THAILAND: E. SIDE DOI SUTEP 875M
VII-15-62
Bark splits of small stumps in rain forest cyp ("winter" slope). ~~Embonycha~~ ♀ eggs + young. Adelumbia

C-414 THAILAND E. SIDE DOI SUTEP 1275M
VII-15-62 High forest of oak, chestnut etc. "Embonycha" in and under lichen encrusted bark of dead trees Also bl+W. species
Adult ♂ ♀ large Ptiloxembia (new gen.) IV-17-63

C-415 Same place
Small species with whitte-tipped antennae in matted leaves under dead limbs on ground in sunny exposure.
EOSEMBIA ATTENUATA

C-416 Same place
Orange and black Apostkonia on bark of felled tree
Small Apostkonia separated IV-18-63

C-417 THAILAND: E. SIDE DOI SUTEP 1100 M VII-16-62 Rain forest zone in shaded slope Philocrembia 3 ♀ on scarred stumps in new coffee plot. Webs small in extent (+/- ¼" wide) extending from crack, purplish, thin, light covered with bark dust. ♀s adult with egg masses and 1st instar young. Eggs in matrix bark dust opercula not visible in silk-covered mass. Also a 417B 1 ♀

A+B

C-418 THAILAND: E. SIDE DOI SUTEP, 1200 M VII-16-62 Rain forest zone "Embongcha" common in dead bark, scarred saplings & stumps. Tunnels similar to Philocrembia (above) but smaller. Eggs in tubular mass in depths of crevice surrounding ♀ on walls of tunnel. Covered with bark matrix when on solid surface.

418B reduced to single BW ♀ VI-27-63

2 N. SP.

Adelembia n. sp.

C-419 Same place. 2 orange and black Apostholus ♀ and egg masses in ~~open~~ exposed webs on saplings. Seem to be smaller, duller and than ♀s from lower altitude.
Eggs in matrix of bark dust with just rims of opercula visible. All on one plane.

C-420 Same place 1 tiny black ♀ n. sp. in crevice of splintered stub in shaded forest. Young and eggs may be present - both surfaces of split in culture

Apostholus n. sp.

C-421 THAILAND: E. SIDE DOI SUTEP 1200 M VII-16-62 Black + white n. sp + gen (?) in frass-covered tunnels in scarred and dead bark. Adult ♀ and eggs.

Adelembia n. sp. B+W ♀ orange + black ♂

C-422 THAILAND: E. SIDE DOI SUTEP 560 M VII-16-62 Several egg masses of orange + bl. and brown Apostholus virgin ♀s only

C-423 THAILAND: E. SIDE DOI SUTEP 560 M VII-16-62 Minute species with penult ♂s on sheltered, laterite, road bank with fine layer of moss. Small white shiny tunnels on surface follow cracks into soil Teratembiid

ACINEMBIA SUTEPENSIS

C-424 THAILAND: CHIENGMAI (ZOO) VII-17-62 2 nests orange + black Apostholus in cracks in trunk of small saplings.

C-425 THAILAND: 13 MI. S.E. LEE, 600 M, VII-19-62 Deciduous forest on rocky ridge, foothills of larger forested range. Subject to fires and drought. Saplings cut and scarred. First rains of season
This culture 3 ♀ Philocrembia and egg masses. Purplish frass spotted silk mass with broad radiating tunnels from crevice or leaf node. Egg mass in dust matrix covered by silk. Some 1st instar young.
1 pr ♂♀ adults collected VII-16-63
2 or 3 antepenults seen VII-16-63
Egg mass present I-31-64
early instars observed IV-16-63 penults VI-25-63

C-426 Same place
Tiny embiid in moss and lichen crust of overturned termite mound, under stones etc. Silk white, shiney 1 penult ♂ several young
PELTEMBIA N GEN + SP.

C-427 Same place
Aposthonia? n. sp. dull black females with egg masses (in matrix, silk-covered) on sheltered side of stones. Silk white, naked.

C-428 Same place
Saundersii-like shiny black ♀s, eggs, 1 penult ♂ in dry bark flakes and crevices
Aposthonia n. sp. related to borneensis

C-429 Same place
Orange + black Aposthonia in dry bark crevices, edge of stones, sucker bases of cut-off saplings. Adult ♀s and egg masses. white silk.
2 sp. (1 with orange meso-thoracic femora - the other with these black.

C-430 Same place
2 ♀ "Embolyntha" and eggs under bark flakes of small saplings. Webs purplish, frass specked.

→ Note: C-429 1 adult ♀ with black mid femora separated III-9-63
3rd instar VII-15-63
1964 adults maturing III-64

C-131 THAILAND: N. GATE KHAO-YAI NAT. PARK (REST STOP PLACE) 375 M, VII-25-62
Tiny species, Teratembiid? in soft bark on underside of fresh cut 6" log on grass. 2 juv.
Also small Aposthonia (black ♀) in splintered stumps of saplings, several adults + juv.
Forested valley in limestone hills area. Trees dense, smooth-barked; region subject to dry season.

♂ C-432 Same place
Orange and black Aposthonia adult ♀ + eggs also penult ♂ (had sclero larva - full grown - attached. This pinched and killed.

C-433 THAILAND: KHAO-YAI NAT. PARK, 750M
3rd instar young in elastic silk colony under side of large felled tree along road in forest. Silk purplish covered with fine bark dust.
May not be common Aposthonia
= Pilourembia n. sp. vitacauda group

C-434 THAILAND: Same place
A+B, C, D
Large orange + bl. Aposthonia ♀ + eggs under ~~the~~ bark flakes etc on standing trees in dense forest.

C-435 THAILAND: KHAO-YAI NAT. PARK, 750M

Ptilocerembia n. sp. in two colonies on underside of limbs of recently-felled chestnut tree (dead leaves still attached) silk grayish, frass littered. 2 Adult ♀ and 2nd instar young. One colony had Apposthonia adjoining. Silk distinctly white and denser. In high virgin forest. Ptilocerembia

C-436 A+B Some place

Gen & sp. in smaller, obscure tunnels ramifying on under surface of large dead trees along recently-cut road in virgin forest. Seems to be same species as in C-433

436B PTILOCEREMBIA

C-437 THAILAND: N. GATE KHAO-YAI NAT. PARK 375M

VII-28-62

Monsoon valley forest large trees with thick vines and small tree understory.

Small embiid in dry bark

All Eosembia by 1964

C-438 Some place

Mixed colony Apposthonia (or + bl.) and Ptilocerembia under vine on small tree. Adult ♀ of each with eggs + young.

C-439 THAILAND: BANPE (13 MI. S.E. RAYONG) SEALEVEL

VII 30-62

Dry dead bark of small scarred trees behind beach. Mixture of large or + bl Apposthonia and borneensis. Secondary growth and coconut palms, rocky hill.

C-440 THAILAND: WATERFALL, S.E. OF CHANTABURI

75 M VII-30-62

Large Apposthonia extensively matting rubber trees with white silk patches at all levels. Young about 2-3rd stage in small tunnels under surface sheet of silk fed on superficial bark and fine moss. Grove heavily overgrown with grasses. Next to natural forest in gorge. Wet Zone.

C-441 Some place + C-441B

Ptilocerembia some place but rarer. Tunnels ~~powdered~~ powdered with bark dust and frass. Ptilocerembia

C-442 Some place

Mixed species - some may be new, i.e. not those in C-440, C-441

Apposthonia n. spp. large + small

C-443 THAILAND: 12 MI. N. HUAHIN, SEA LEVEL.
VIII - 5 - 62
Bamboo and small tree clumps in dry coastal plain Embido, Apoathonia on & bl & borneensis on bank near bases of trunks in shade

C-444 THAILAND: KRACHONG FOREST VIII 8-62
Ptilocercembia + Apoathonia n. sp. on bank of tree in clearing in primary forest

C-445 MALAYA: 3 MI. S. IPOH VIII - 9-62
Small bl Apoathonia n. sp in bark flakes of small shaded tree in rubber grove 10 collected.
Died out

C-446 MALAYA: 3 MI. S. IPOH VIII - 9-62
Ptilocercembia ♀ + young on bank of rubber tree in shade

C-447 SINGAPORE: BUKIT TIMAH VIII -16-62
Small Apoathonia in bark cracks in natural forest of nature reserve
DIED OUT